

SEQUENCE LISTING

<110> Nicholas M. Dean
Susan F. Murray

<120> ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA
EXPRESSION

<130> ISPH-0607

<150> 09/661,753

<151> 2000-09-14

<150> 60/154,546

<151> 1999-09-17

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tccgaggccc cagagtctga gaccagccgc cgccgcaggg aggaggggga ggaggagtgg 240
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gaggactcca gacagccctg ctccacgctg tggacactcg atcgctaccc ggcgttcctc 420
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cacaagccct gcagggggcg ggcctccgca tcccaccttt gccgaggggt cccgctctcc 840
gaagtgccgt ggggcgcgcg ctcctccc atg ccg ccc tcg ggg ctg cgg cta ctg 894
Met Pro Pro Ser Gly Leu Arg Leu Leu
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ccg ctt ctg ctc cca ctc ccg tgg ctt cta gtg ctg acg ccc ggg agg 942
Pro Leu Leu Leu Pro Leu Pro Trp Leu Leu Val Leu Thr Pro Gly Arg
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cca gcc gcg gga ctc tcc acc tgc aag acc atc gac atg gag ctg gtg 990

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Lys	Arg	Lys	Arg	Ile	Glu	Ala	Ile	Arg	Gly	Gln	Ile	Leu	Ser	Lys	Leu		
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Arg	Leu	Ala	Ser	Pro	Pro	Ser	Gln	Gly	Glu	Val	Pro	Pro	Gly	Pro	Leu		
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Pro	Glu	Ala	Val	Leu	Ala	Leu	Tyr	Asn	Ser	Thr	Arg	Asp	Arg	Val	Ala		
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Gly	Glu	Ser	Ala	Asp	Pro	Glu	Pro	Glu	Pro	Glu	Ala	Asp	Tyr	Tyr	Ala		
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Ser	Asp	Ile	Arg	Glu	Ala	Val		Glu	Pro	Pro	Leu	Leu	Ser	Arg	Ala		
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Glu	Leu	Arg	Leu	Gln	Arg	Leu	Lys	Ser	Ser	Val	Glu	Gln	His	Val	Glu		
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ctc	tac	cag	aaa	tat	agc	aac	aat	tcc	tgg	cgt	tac	ctt	ggc	aac	cgg	1422	
Leu	Tyr	Gln	Lys	Tyr	Ser	Asn	Asn	Ser	Trp	Arg	Tyr	Leu	Gly	Asn	Arg		
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Gly	Val	Val	Arg	Gln	Trp	Leu	Asn	Gln	Gly	Asp	Gly	Ile	Gln	Gly	Phe		
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Arg	Phe	Ser	Ala	His	Cys	Ser	Cys	Asp	Ser	Lys	Asp	Asn	Lys	Leu	His		
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Val	Glu	Ile	Asn	Gly	Ile	Ser	Pro	Lys	Arg	Arg	Gly	Asp	Leu	Gly	Thr		
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atc	cat	gac	atg	aac	cgg	ccc	ttc	ctg	ctc	ctc	atg	gcc	acc	ccc	ctg	1662	
Ile	His	Asp	Met	Asn	Arg	Pro	Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro	Leu		
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Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln	
285 290 295	
ctg tac att gac ttt agg aag gac ctg ggt tgg aag tgg atc cac gag	1806
Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu	
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Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile	
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Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln	
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His Asn Pro Gly Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu	
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Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu	
365 370 375	
cag ttg tcc aac atg att gtg cgc tcc tgc aag tgc agc tga	2040
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 Met Pro
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 Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Pro Trp Leu
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 Leu Val Leu Thr Pro Gly Arg Pro Ala Ala Gly Leu Ser Thr Cys Lys
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acc atc gac atg gag ctg gtg aaa cgg aag cgc atc gaa gcc atc cgt 562
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 35 40 45 50

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 Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly
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 Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu Tyr Asn
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Val	Leu	Ala	Leu	Tyr	Asn	Gln	His	Asn	Pro	Gly	Ala	Ser	Ala	Ser	Pro	
	340					345					350					
tgc	tgc	gtg	ccg	cag	gct	ttg	gag	cca	ctg	ccc	atc	gtc	tac	tac	gtg	1522
Cys	Cys	Val	Pro	Gln	Ala	Leu	Glu	Pro	Leu	Pro	Ile	Val	Tyr	Tyr	Val	
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 Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu
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 Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr
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Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala	
35 40 45	
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Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser	
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cag ggg gag gtg ccg ccc ggc ccg ctg ccc gag gcc gtg ctc gcc ctg	1081
Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu	
65 70 75 80	
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Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu	
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ccc gag cct gag gcc gac tac tac gcc aag gag gtc acc cgc gtg cta	1177
Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu	
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Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr	
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cac agc ata tat atg ttc ttc aac aca tca gag ctc cga gaa gcg gta	1273
His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val	
130 135 140	
cct gaa ccc gtg ttg ctc tcc cgg gca gag ctg cgt ctg ctg agg agg	1321
Pro Glu Pro Val Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg	
145 150 155 160	
ctc aag tta aaa gtg gag cag cac gtg gag ctg tac cag aaa tac agc	1369
Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser	
165 170 175	
aac aat tcc tgg cga tac ctc agc aac cgg ctg ctg gca ccc agc gac	1417
Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp	
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Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val
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